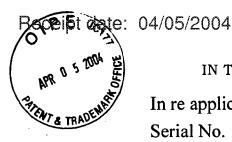
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/772,225 **TRANSMITTAL** Filing Date 02/04/2004 **FORM** First Named Inventor Chen Art Unit (to be used for all correspondence after initial filing) **Examiner Name** Attorney Docket Number

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Chen : Art Unit: Serial No. 10/772,225 : Examiner:

Filed: 02/04/2004 : Atty's Docket: SC-03-02

For: Three-Dimensional Tooth Orientation for Roller Cone Bits

INFORMATION **DISCLOSURE** STATEMENT

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

Sir:

The accompanying form PTO-1449 lists one or more documents which may be considered material to the examination of this application. A copy of each document is provided, if available.

Applicant reserves the right to establish the patentability of the claimed invention over any of the listed documents should they be applied thereagainst as references, and/or to prove that some of these documents may not be prior art, may not be within an analogous field of art, and/or may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, nor that more material information does not exist.

The Examiner is specifically requested to conduct an independent and thorough review of the documents, and to form his own opinions as to the significance of those documents to patentability of the claimed inventions, regardless of any of the foregoing statements concerning the significance of the references. The foregoing statements are made in good faith, and in compliance with the duty of disclosure; but they cannot substitute for the Examiner's specialized expertise, nor are they intended to derogate from the Examiner's official duty to assess patentability.

Receipt date: 04/05/2004 10772225 - GAU: 2128

It is also respectfully noted that the submission of this material is <u>not</u> intended to displace the Examiner's professional ability and duty to search. Indeed, the Examiner is specifically requested <u>not</u> to rely on the materials submitted herewith, but to conduct a full and independent search.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, to indicate in the file of this patent application that the documents have been considered.

Respectfully submitted,

Robert O. Groover III Registration No. 30,059 Agent for Applicant

Date: March 31, 2004

11330 Valleydale Drive, Dallas, TX 75230 972-363-3038 Receipt dete. \$4205/2004

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	/H.J./	1	DEKUM MA, The Operational Mechanics of the Rock Bit, 1996, Petroleum Industry Press, Beijing, China.								
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			TsV" (date prior to 1997). L.E. HIBBS, JR., et al., Diamond Compact Cutter Studies for Geothermal								
		8	Bit Design (Nov. 1978).								
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NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the tem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. ADAM T. BOURGOYNE JR., et al., Applied Drilling Engineering, Society of Petroleum Engineers Textbook Series (1991). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1996, from French eriginal 1993). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1996, from French eriginal 1993). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1996, from French eriginal 1993). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1996, from French eriginal 1993). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1996, from French eriginal 1993). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1994). J.P. NGUYEN, Oil and Gas Field Development Techniques: Drilling (translation 1998), Vol. 4, No. 2, pp. 119-127 15618, XP002266079. J. Naking Hole, part of Rotary Drilling Series, edited by Charles Kirkley (1983). J. N. WARREN, "Factors Affecting Torque for A Roller Cone Bit", JPT J. PET Technol Sept. 1984, Vol. 36, No. 10, pp. 1500-1508, XP002266078. J. Drilling Mud, part of Rotary Drilling Series, edited by Charles Kirkley (1984). J. Drilling Mud, part of Rotary Drilling Series, edited by Charles Kirkley (1984). J. C. ESTES, Selecting the Property Rotary Rock Bit, JPT, Nov., 1971, pp. 1359-1367. J. C. ESTES, Selecting the Property Rotary Rock Bit, JPT, Nov., 1971, pp. 1359-1367. J. SIKARSKIE et al., Penetration Problems in Rock Mechanics, ASME Rock Mechanics Sympostum, 1973. J. SIKARSKIE et al., Penetration Problems in Rock Mechanics, ASME Rock Mechanics Sympostum, 1973. J. SIKARSKIE et al., Penetration Problems in Rock Mechanics, ASME Rock						1
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			DYKSTRA et al., Experimental Evaluations of Drill String Dynamics, SPE					
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			Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy					
			Services, Inc. v. Smith International, Inc., 4 pages, 09/06/2002.					
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			District of Texas, Sherman Division, Civil Action No. 4-02CV269, Halliburton					
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***************************************		26	First Amended Answer and Counterclaim of Smith International, filed October 9, 2003, in the U.S. District Court for the Eastern District of Texas,			
			Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services,			
			Memorandum Opinion of Judge Davis, signed February 13, 2004, in the			
		27	U.S. District Court for the Eastern District of Texas, Sherman Division,			
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		28	B.L. STEKLYANOV et al., Improving The Effectiveness of Drilling Tools, Information Summary, Central Institute for Scientific and Technical Information and Technical and			
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